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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,341	03/17/2004	Che-Hsiung Hsu	UC0361USNA	3645
	7590 03/20/200 DE NEMOURS AND 0	EXAMINER		
LEGAL PATENT RECORDS CENTER BARLEY MILL PLAZA 25/1128 4417 LANCASTER PIKE WILMINGTON, DE 19805			KOPEC, MARK T	
			ART UNIT	PAPER NUMBER
			1751	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/20/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		the state of the s					
	Application No.	Applicant(s)					
	10/802,341	HSU ET AL.					
Office Action Summary	Examiner	Art Unit					
	Mark Kopec	1751					
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	ON. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 11 E	<u>December 2006</u> .						
2a) This action is FINAL . 2b) ∑ This							
3) Since this application is in condition for allowa	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	453 O.G. 213.					
Disposition of Claims		•					
4)⊠ Claim(s) <u>1-31</u> is/are pending in the application	1 .						
4a) Of the above claim(s) <u>1-19</u> is/are withdraw	,						
5) Claim(s) is/are allowed.		·					
6)⊠ Claim(s) <u>20-31</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10)⊠ The drawing(s) filed on <u>17 March 2004</u> is/are:		to by the Examiner.					
Applicant may not request that any objection to the		· .					
Replacement drawing sheet(s) including the correct		•					
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Offic	e Action or form PTO-152.					
Priority under 35 U.S.C. § 119		•					
12) ☐ Acknowledgment is made of a claim for foreigr a) ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Burea	u (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summar	ry (PTO-413)					
2) DNotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail [Date					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	ratent Application					

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Applicant's election without traverse of Group III (claims 20-31) in the reply filed on 12/11/06 is acknowledged.

The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper."

Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 25-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The terms "preferably" and "and the like" should be deled from these dependant claims. See MPEP 2173.05(d).

Applicant is advised that should claim 28 be found allowable, claim 29 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an

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application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 20-31 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 14-21 of copending Application No. 10/803,114. Although the conflicting claims are not identical,

they are not patentably distinct from each other because both the instant claims and the claims of 10/803,114 are drawn to the production of a polypyrrole/colloid-forming polymeric acid comprising reacting pyrrole monomer in the presence of colloid-forming polymeric acid in aqueous media. The additional steps recited in copending 10/803,114 are not excluding by the instant process.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The factual inquiries set forth in *Graham* v. *John Deere*Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 21-26 and 31 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Pickup et al (Journal of New Materials...).

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Initially, applicant's definition of "colloid-forming" polymeric acid" at page 7 of the specification is noted.

Pickup discloses chemical synthesis of conducting polymer/polyanion composites (Abstract). The reference specifically discloses polymerization of pyrrole monomer in the presence of Nafion dopant (CH3CN/H2O solvent) using Fe oxidant (see Experimental section and Tables 1-2). The reference specifically or inherently meets each of the claimed limitations.

The reference is anticipatory.

In the event that any minor modifications are necessary to meet the claimed limitations, such as order of adding ingredients, such modifications are well within the purview of the skilled artisan.

Claims 21-26 and 31 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Ohtani et al (4,869,979).

Ohtani discloses conducting organic polymer battery is disclosed, which comprises a cathode comprising a conducting organic polymer doped with a polymer anion having a number of anionic groups in the molecule thereof, an anode comprising a metal having a redox potential lower than that of the conducting organic polymer, and an electrolyte solution or a solid

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electrolyte as an ion conductive phase (Abstract). conducting organic polymer comprising a composite of the p-type conducting organic polymer and the polymer anion as a dopant can be obtained by conventional methods as described, e.g., Chem. Lett., Vol. 1986, 687 and JP-A-59-98165, in which the abovedescribed polymer anion (NAFION) is dissolved in a solution of a monomer capable of forming the conducting organic polymer (pyrrole) and the monomer is oxidatively polymerized in the solution. The manner of oxidative polymerization is not particularly restricted and can be selected appropriately from electrolytic oxidation, chemical oxidation and photo-oxidation. In more detail, the conducting organic polymer doped with the polymer anion can be obtained effectively by a method comprising dissolving the monomer in an electrolyte solution having dissolved therein, for example, a salt comprising a polymer anion and its counter cation or only an acid-type polymer anion, and subjecting the monomer to electrolytic oxidative polymerization in the solution; a method comprising dispersing or dissolving an oxidizing agent which forms no anion species after being reduced, e.g., manganese dioxide, a bichromate, etc., in a solution, mixing the resulting solution with a solution having dissolved therein an acid-type polymer anion and the monomer, and subjecting the monomer to chemical oxidative

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polymerization; a method comprising mixing ferric hydroxide, an acid type polymer anion, and the monomer in a solution, and subjecting to chemical oxidative polymerization; or the like technique (Col 3, lines 37-66). The reference specifically or inherently meets each of the claimed limitations.

The reference is anticipatory.

In the event that any minor modifications are necessary to meet the claimed limitations, such as order of adding ingredients, such modifications are well within the purview of the skilled artisan.

Claims 28-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pickup or Ohtani et al (4,869,979).

Both references are relied upon as set forth above. The references differ from instant claims 28-30 in failing to specifically disclose the claimed step(s) of treating the solution with basis or cation exchange.

The examiner respectfully submits that such processes are known in the art to remove impurities or alter pH. See, for example, EP 0593111 (page 5, lines 15-20, examples 1-7).

In view of the foregoing, the above claims have failed to patentably distinguish over the applied art.

The remaining references listed on forms 892 and 1449 have been reviewed by the examiner and are considered to be cumulative

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to or less material than the prior art references relied upon in the rejection above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Kopec whose telephone number is (571) 272-1319. The examiner can normally be reached on Monday - Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas McGinty can be reached on (571) 272-1029. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Malk Kopec
Primary Examiner
Art Unit 1751

MK March 15, 2007